



Globally Proven
Construction Solutions

GUARD EP

SDS INTL 44.1 - 07.20

GUARD EP is a 1mm thick, pigmented, 100% solids, thin - build epoxy coating.

GUARD EP is composed of:

- 2 Layers of GUARD EP

FEATURES/BENEFITS

- Modular construction means simple, fast installation
- Excellent abrasion and chemical resistance
- Great for area demarcation
- Low permeability
- Integrated, seamless sanitary cove
- Easy maintenance
- Superior substrate adhesion
- Available in wide variety of colors
- Available in smooth, extra-smooth, and anti-slip versions

USES

- Light Manufacturing
- Warehouses
- Car Dealerships
- Offices
- Retail
- Parking Garages
- Schools

MANUFACTURER

LATICRETE International, Inc.
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CT 06524-3423 USA
Telephone: 1.800.243.4788,
www.laticrete.com

STANDARDS/CERTIFICATIONS

Suitable Substrates

- Concrete
- Properly prepared existing floor coating

Packaging: (filled in by BU)

Approximate Coverage

Layer	Product	Mixture / Kg	Consumption Kg/m ²
1st Layer	Guard – A	1,000	0,170
	Guard – B	0,200	0,034
2nd Layer	Guard – A	1,000	0,120
	Guard – B	0,200	0,024

Always mix component A with B thoroughly to ensure a complete chemical reaction. After mixing, apply immediately. Avoid direct sunlight

Shelf Life

The temperature of the storage area should be between 8°C and 32°C, avoid excessive heat and freezing of the material.

This product must be stored in its original packaging on pallets in clean, dry, ventilated areas, and out of direct sunlight.

Limitations

Substrate and air temperature must be between 10°C (50°F) and 30°C (86°F). Substrate temperature must be 3°C (5°F) above the dew point. The prepared surface should have a nominal tensile strength of 225 psi (1.6 MPa) per ASTM D7234. Moisture vapor emission rate (MVER) must be under 3 lbs/1000 ft² / 24h. The relative humidity of the slab must not exceed 75% as tested per ASTM F2170. If there is a moisture emission situation in excess of the above rate, we recommend using LATICRETE® Moisture Vapor Barrier.

Note: Prior to application, sound out existing substrate to identify any hollows or non-solid areas. All non-solid concrete should be removed and repaired. It is very important that the finished product is applied over sound, solid, and suitable concrete substrate and/or coating.

Cautions

Consult SDS for more safety information.

- Wear protective gloves, clothing, safety shoes, and eye wear.
- May cause skin irritation
- May cause an allergic skin reaction. If rash occurs, remove individual from the work area and seek physician's care for dermatitis.
- May cause serious eye irritation. In case of eye contact, flush with water for at least 15 minutes and consult a physician.
- If contact with hardeners occurs, remove any clothing involved and flush the skin with flowing water. Do not attempt to wash and reuse it. This material can be removed with soap and water. Do not use acetone.
- If swallowed, do not induce vomiting; call a physician immediately.
- Keep out of reach of children.

TECHNICAL DATA

Physical Property	GUARD EP	Test Method
Compressive Strength	103.42 MPa (>15000 Psi)	ASTM C 579
Tensile Strength	28.32 MPa (4108 Psi)	ASTM C307
Flexural Strength	32.12 MPa (4658.00 Psi)	ASTM C580
Abrasion Resistance	0.128 g	ASTM D4060
Pullout Resistance	2.93 MPa (424.96 Psi)	ASTM D 4541
Surface Hardness [Shore D]	87-90	ASTM D2240
Thermal Tolerance (Continual)	< 60°C	
Thermal Tolerance (Peak)	< 90°C	
UV Resistance	Not indicated	-
Chemical Attack	See table	ASTM C 267
Water Absorption	0, 0 (%)	DIN 52617
Foot Traffic	12 hours	-
Light Traffic	48 hours	-
Cure Time	7 days	-
Ave. Re-Coat Time	8- 24 hours	-

The data in the above table shall be used by the Project Design Professional to determine suitability, placement, building code conformance and over-all construct appropriateness of a given installation assembly.

INSTALLATION**Surface Preparation**

Concrete must be prepared mechanically to remove all surface contamination. Use one of the following tools to mechanically profile the concrete surface to achieve a homogenous ICRI CSP 2 or 3:

- Diamond Grinding Machine
- Shot Blast Machine

Honeycombs or voids exposed due to mechanical preparation must be treated with the appropriate filler from our selection of complementary products.

Cracks & Joints

Inspect substrate to identify all moving and non-moving cracks/joints. Method of repair for moving cracks/joints should be designated by local onsite project engineer. All non-moving cracks/joints should be addressed and infilled prior to application of surface coating.

Application

Ensure surface is prepared and completely dry.

1st Layer: Guard EP

The first layer of Guard EP is applied with a straight edged steel trowel using a downward pressure.

Once the material is dry and tack-free, sand using a floor buffer machine with a #24 grit abrasive pad. Pass the machine in two directions, perpendicularly, to create a homogenous surface. Sweep and vacuum the floor. Then proceed with the second layer.

2nd Layer: Guard EP

The second and final layer of Guard EP is applied with a lightweight rubber squeegee and back rolled with a polyester foam or nap roller to remove squeegee marks.

Note: Mock-ups and field test areas are required in order to validate performance and appearance related characteristics (including but not limited to color, inherent surface variations, wear, anti dusting, abrasion resistance, chemical resistance, stain resistance, coefficient of friction, etc.) to ensure system performance as specified for the intended use, and to determine approval of the coating system.

Variability in job site conditions (including but not limited to surface preparation, sunlight, humidity, dew point, temperature, etc.) during application of LATICRETE products may lead to fisheyes, blistering, pinholes, wrinkling, or outgassing of air in the concrete and are not product defects.

Cleaning of Tools

Clean all tools and spray equipment immediately after use with warm water and detergent. Acetone may be used as a final rinse.

AVAILABILITY AND COST

Availability

LATICRETE® materials are available worldwide.

For Distributor Information, Call:

Filled in by BU

For on-line Distributor Information, visit LATICRETE at **website of BU**

Cost

Contact a LATICRETE Distributor in your area.

WARRANTY

Filled in by BU - 1-Year PRODUCT Warranty

MAINTENANCE

The long-term performance, appearance, and life expectancy of wear surface products are critically dependent upon a good routine maintenance program designed specifically for the installed wear surface. LATICRETE floor coating systems are nonporous, causing dirt and contaminants to remain on the surface. The use of properly placed walk-off mats, inside and outside, will help increase the life of the floor. Recommended maintenance program consists of frequent and thorough cleaning utilizing a neutral pH cleaner. Frequency of washing will vary depending on floor usage type, traffic and age. Please refer to TDS 3141 "Floor Maintenance Guide" available at www.laticrete.com for more information.

TECHNICAL SERVICES

Technical Assistance

Information is available by calling the LATICRETE: **(Filled in by BU)**

Technical and Safety Literature

To acquire technical and safety literature, please visit our website at **website of BU**